



ELECTROCOMPANIET

If music really matters...



# **AW 2x120 BALANCED POWER AMPLIFIER**

# Owner's Manual

**WARNING:** To reduce risk of fire or electric shock, do not expose this appliance to rain or moisture. Verify line voltage before use.

Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel. The warranty is void if the product is tampered with by non authorized personnel. Use only authorized Electrocompaniet service station.

### **Unpacking the amplifier:**

Immediately upon receipt of the amplifier, inspect the carton for possible damage during shipment. If the carton is visibly damaged, a claim must be filed with the carrier as soon as possible.

Unpack the unit carefully, and please do remember to save all packaging materials for future shipment. The carton and packaging have been designed to offer the safest possible protection when transporting your amplifier.

### **The content of the carton is as follows:**

1 pcs Electrocompaniet Ampliwire 2x120  
1 pcs AC power cord  
1 Owners Manual  
2 pcs ECP5XLR  
1 pcs Spare fuse, 5.0 AT slow-blow 5x20mm (120V AC)  
1 pcs EC 4.9 – AW 120 Communication cable  
2.5 AT slow-blow 5x20mm (220V AC)  
The actual spare fuse is located inside the AC 3 pin receptacle.

### **Connecting the AW 2x120**

Connecting to mains

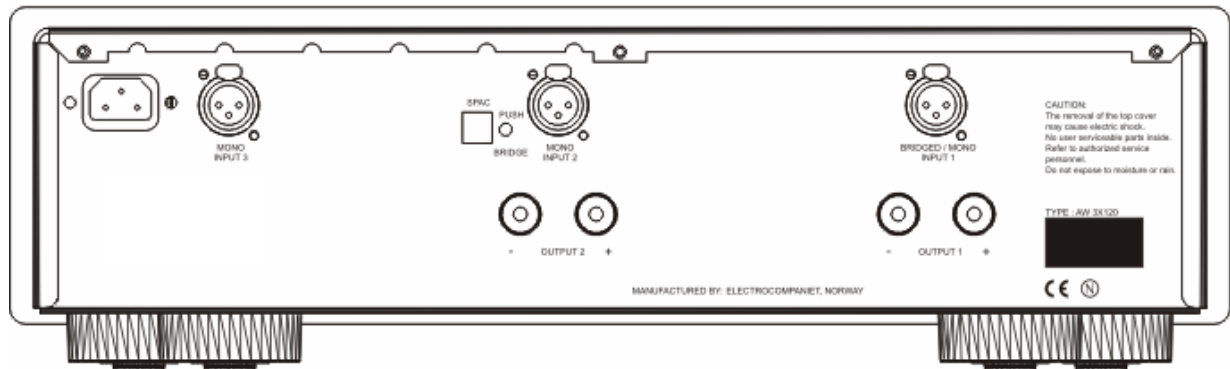
Check that the mains voltage printed on the rear panel of the amplifier corresponds with the line voltage in the territory where you intend to use your amplifier.

### **How to avoid damages**

A good operating practice is to turn off all equipment before any connections or disconnection's are made. Do not under any circumstances connect or disconnect equipment when power is turned on. If you insist on connecting or disconnecting while power is turned on, you should be aware that the design of the RCA plug generates a large transient when inserting the plug. This could damage both the speakers and the amplifier.

## The rear panel

The rear panel of the Ampliwire AW 2x120 is equipped with XLR inputs.



## Balanced XLR operation

Use an interconnect with ground on pin 1, + on pin 2 and – on pin 3

## Single ended operation

Use an RCA to XLR adapter (ECP5XLR).

Connect ECP5XLR to the XLR input.

Connect the RCA interconnect to the input on the ECP5XLR

## Speakers

Connect the speakers to the + and - output terminals

## Spac

Connect the EC 4.9 – AW 120 Communication cable from the Spac port to EC 4.8 or EC 4.9 preamplifier to enable automatically bridging.

## Bridge (mono) mode

When the amplifier is used in mono mode the XLR input 1 and Speaker output 1 is used. If you use EC 4.9 – AW 120 communication cable and connect this from Spac output to EC 4.9 or EC 4.8, the AW 2x120 will switch into mono mode automatically.

To manually switch the AW 2x120 into mono mode push the bridge button. Note that when an EC 4.9 – AW 120 communication cable is connected to the AW 2x120, this button is not used.

## Upgrade

The AW 2x120 is prepared to be upgraded to 3x120. The input 3 is reserved for this upgrade. Contact Electrocompaniet or your dealer for more information about this upgrade.

**Technical Specifications AW 2x120:**

The following technical data were measured on randomised test objects and are typical data. All measurements are made with the following equipment:

Distortion analyser: Tektronix AA501

Oscilloscope: Tektronix 468

Oscillator: Tektronix SG505

Frequency counter: Rascal 9838

Phase meter: Hewlett Packard 3575A

**Amplifier section**

Main voltage 120 V / 240 V. Clipping point of the amplifier is set to a level where total harmonic distortion (THD) is 0.2 %.

Output Impedance (20 Hz - 20 kHz) < 0,01 W

RCA (single) input impedance 220 kOhm

XLR (balanced) input impedance 110 kOhm

Input sensitivity for rated output 1 V

Max. Peak current > 100 A

THD (measured at 1 kHz half power, 8 Ohm) < 0,002 %

THD (measured at 1 kHz 1 dB, 8 Ohm) < 0,002 %

Noise (measured with both inputs shorted)

400 Hz - 30 kHz : 90  $\mu$  V

10 Hz - 30 kHz : 100  $\mu$  V

**Rated output power**

10 % change in line voltage will give app. 20 % change in output power.

8 Ohm 2 x 120 W - 1 x 400 W

4 Ohm 2 x 200 W - 1 x 600 W

2 Ohm 2 x 350 W - 1 x 800 W

**Power consumption** (no load or signal) 161 W

**Dimensions**

Width 483 mm

Depth 415 mm

Height 135 mm

Weight 21 kg

## **Important Notice**

For optimal sonic performance, the AW 2x120 should be burned in for a minimum time of 72 hours.

If the AW 2x120 has been switched off, allow two hours of warm-up for optimal sonic performance.

Due to high class A operation in all Electrocompaniet designs, it is normal for the AW 2x120 to feel warm.

Proper ventilation is important.

Never cover the ventilation area.

A good rule of thumb is to allow at least 3 - 5 cm (1 - 2 inches) of air sideways, and 5 - 8 cm (2 - 3 inches) above the EC 4.9.

## **If service is needed**

Your dealer will have all relevant information regarding the service centre in your area and will ensure that your unit is serviced with minimum delay.

It is our general policy to have your unit returned to you within five working days.

This is an average time and can vary locally, depending on the workload at that particular service centre.

If, for some reason, there are no service facilities available in your country, please ship the unit to the following address:

ELECTROCOMPANIET AS,  
BREIVIKVEIEN 7,  
4120 TAU,  
NORWAY

Switchboard: +47 51 74 10 33 Fax: +47 51 74 10 10 Service: +47 51 74 10 23

E-mail: [sales@electrocompaniet.no](mailto:sales@electrocompaniet.no)

Web: [www.electrocompaniet.no](http://www.electrocompaniet.no)

Service department: [service@electrocompaniet.no](mailto:service@electrocompaniet.no)

The end-user is responsible for all shipping charges, insurance, and re-importation and duty charges.

When shipping a product to the factory for service, always include the following:

1. A sales slip or other proof of purchase if repair is claimed under warranty.
2. A proforma invoice with value of goods, stating that the amplifier is being returned to Norway for repair.
3. An accompanying letter describing faults, symptoms, or problems with the unit.
4. Always ship the unit in its original carton and packaging material to prevent damage in transit. Electrocompaniet will not cover damages incurred in transit.

If you require further information concerning the operation of the unit or if you have any questions related to service, please do not hesitate to contact your dealer or national distributor.

